MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2022/2023

TIA2221 – INFORMATION ASSURANCE & SECURITY

(All Sections / Groups)

4th JULY 2023
9.00 a.m. – 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

2. This Question paper consists of 3 pages with 5 Questions only.

2. Attempt **ALL** questions. All questions carry equal marks and the distribution of the marks for each question is given.

3. Please print all your answers in the Answer Booklet provided.

Question 1

1a) What is the difference between Information Protection and Information Assurance?

[4 Marks]

1b) Describe the following **TWO** (2) terms used as Information Assurance Principles.
i) Business Enabler
ii) Robust Approach

[4 Marks]

1c) You are an employee for a technology department in a non-management position. A high-level executive demand that to you break protocol and allow him to use his home laptop at work. What do you do?

[2 Marks]

Question 2

2a) What is the CIA triangle and briefly state the function of each component?

[3 Marks]

2b) Why are internal threats often more successful than external threats? Explain with an example.

[4 Marks]

2c) State **THREE** (3) factors to be considered during employee screening and selection process.

[3 Marks]

Question 3

3a) Bottom-up approach used whenever immediate security attention is needed. Describe the bottom-up approach and the main challenge in using this approach?

[4 Marks]

3b) By embracing a top-down approach, security is no longer a purely technical matter. Briefly explain the steps taken in implementing the top-down approach.

[4 Marks]

3c) Why would you bring in an outside contractor to perform a penetration test?

[2 Marks]

Continued...

Question 4

4a) Explain the **TWO** (2) mitigation plans to permanently remove the threat of data falling into the wrong hands.

[4 Marks]

4b) State any **THREE** (3) sources of cyber security risks.

[3 Marks]

4c) What is the Chain of Custody?

[3 Marks]

Question 5

5a) Explain what is data loss or data breach? **[2 Marks]**

5b) What are some of the advantages and disadvantages of using differential backup?

[4 Marks]

5c) State **TWO** (2) differences between recovery time objective (RTO) and recovery point objective (RPO)?

[4 Marks]

End of Paper